

Policy Title :

Initial immune-hematological testing for blood donors samples

Department	Index No.	Scope
Laboratory & Blood Bank	LAB-103	BLOOD BANK STAFF
Issue Date	Revision NO	Effective Date
1441/7/20	NEW	1441/7/20
Review Due Date	Related Standard NO.	Page Number#
1443/7/20	CBAHI (LB-50)	3

01. Policy:

The blood bank performs the initial immuno-hematological testing for all blood donors samples .

02. Definition :

Immune- hematological testing: refers to all the tests performed in blood bank : blood grouping, phenotyping, antibody screening.

03. Purpose :

To determine the donor's ABO blood group (forward and reverse), the Rh-D group, the phenotype and the detection of unexpected antibodies for each specimen collected from the donor during the blood / blood components collection.

04. Procedure :

04.1. Procedure

For each blood donor , one 5 ml EDTA sample is extracted during blood donation

04.2. List of tests performed for all blood donor samples

- Forward ABO blood grouping
- Reverse ABO blood grouping
- Rh-D blood grouping
- Du testing for all Rh-D negative samples
- The phenotyping test for Rh-Kell: C,c,E,e and Kell

- The antibody screening to detect unexpected antibodies, if detected the units of PRBCs, Platelets and FFP will be discarded.

- Sickling test by kit

04.3. Procedure

- Cross-reference LAB-061 : ABO cell grouping (Forward grouping)
- Cross-reference LAB-062 : ABO cell grouping (Reverse grouping)
- Cross-reference LAB-064 : Routine Rh (D) Blood Grouping
- Cross-reference LAB-065 : Du testing
- Cross-reference LAB-125 : The phenotyping test
- Cross-reference LAB-072 : Indirect antiglobulin test
- For the Sickling test the technician will follow the instructions in the kit. All units of RBCs with positive sickling tests will be marked with a special sticker so that they will not be transfused to any sickler patient or neonate.
- After performing the blood grouping ABO-RhD, the blood bank technician will compare the result with the previous results on the excel sheet if the donor donated before.
- If any discrepancy is found, the blood bank technician will inform the blood bank doctor to solve it before labeling and releasing the blood and blood components.
- The blood bank doctor will check the previous print-outs for the same donor , may repeat the blood grouping, will compare the blood group with the segment's blood group and if necessary he will ask for a second sample from the donor for retesting.

05. Responsibilities :

- 05.1. All Blood Bank Staff of Al-Qunfudah General Hospital.

06. Equipment & Forms

Register for blood grouping, phenotyping, antibody screening and sickling test.

07. Attachment :

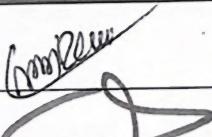
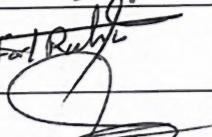
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08. Reference

AABB technical manual 18th edition, 2014

The unified practical procedure manual for blood banks in the arab countries , 2013

Preparation, Reviewing & Approval Box

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